Title: Continental-Scale Water Prediction: Improving Skill and Promoting Community Engagement

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Continental-scale hydrologic models running in a high performance computing environment, such as NOAA's National Water Model, provide a consistent means to predict floods, droughts, water supply, and water quality. This session seeks submissions on topics aimed at improving the skill of continental-scale hydrologic predictions. Topics of interest include process representation across differing landscape and anthropogenic conditions; coupled inland and coastal processes; data assimilation approaches; representation of geomorphic and bathymetric conditions; parameterization and calibration with a focus on machine/deep learning approaches; and performance testing. The quest to develop skillful continental-scale models provides natural collaborative opportunities in an area with significant societal relevance. This session seeks presentations or posters on any of these topics. Particularly encouraged are presentations that focus on facilitation of collaborations and enhancing community involvement to address regional or local water-related issues.